

# Spring 2011

Date	Topic	Tasks	Due dates
Jan			
February	Th 10 Tu 15 Th 17 Tu 22		
February	Th 24 Dr. Sean Weise	Overview on Molecular Section Photosynthesis I	
March	Tu 1 Th 3	Photosynthesis II C3/C4 Photosynthesis	
SPRING BREAK March 7-11th			
March	Tu 15	Dr. Eva Farre Analysis of GA insensitive mutants	
	Th 17	Complementation of the ga5-1 mutation Course overview GA5 section overview Cloning strategy Pipette use PCR lecture Primer design PCR	Photosynthesis Report Photosynthesis Worksheet
	Tu 22	Restriction digestion of DNA TAIR-database Discussion, "pipetting" results	Pipetting worksheet
	Th 24	DNA electrophoresis DNA Ligation	
	Tu 29	Transform E. coli Discussion of paper (Spielmeyer et al., 2002) Discussion: how to write a report	
	Th 31	Plasmid Minipreps Restriction analysis Send for sequencing	
April	Tu 5	Plant Transformation Sequence analysis Evaluation of transformants	Turn in lab notebooks
	Th 7	GA regulation of starch degradation Amylase I Overview Cut and imbibe barley seeds	GA5 Report
	Tu 12	Amylase II Protein/enzyme lecture GA dilutions Start seed induction	
	Th 14	Amylase III Assay protein Prepare for amylase enzyme assay	
	Tu 19	Amylase IV PAGE and western lecture Assay alpha-amylase	
	Th 21	Amylase V PAGE and western Discuss amylase activity results	
	Tu 26	Amylase VI Develop western blot Analyze and discuss amylase western data	
	Th 28	Discussion of results Evaluation of transformants Review Session	Amylase Worksheet Turn in lab notebooks
May	Fri 6	FINAL	